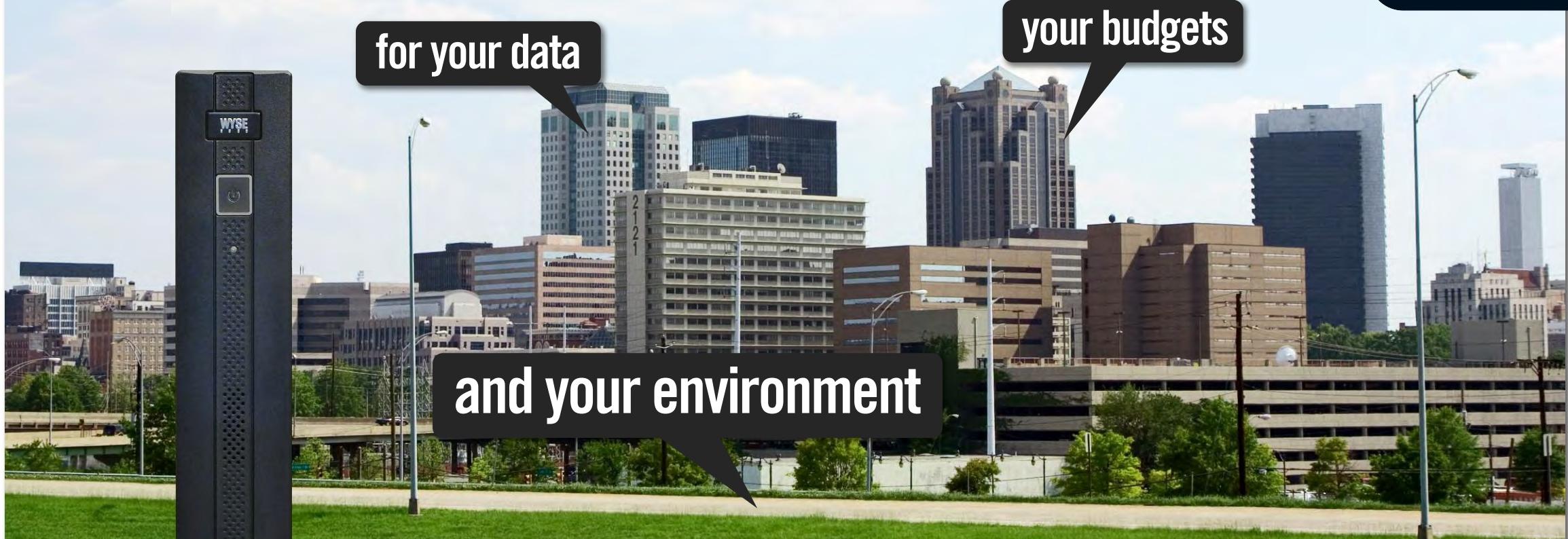


# Wyse R class thin clients

## Best Power, Expandability and Display Performance

WYSE



Wyse R class thin clients.

All you need to know. Here.



# Introducing the Wyse R class thin clients

The new Wyse R class thin clients cater for everything your users need from their desktop PCs. Without the things you don't. Like moving parts, wasted energy, insecure hard drives and excessive unnecessary heat.

Instead we've built in what matters the most to you: Powerful processors, dual monitor support, fast graphics and a host of USB ports for those vital everyday peripherals. Perfect when you need a client capable of voice, data, and video.



## Wyse R00L

High performance, slim form factor, Wyse WSM.

## Wyse R50L

High performance, slim form factor, SUSE Linux Enterprise.

## Wyse R90L

High performance, slim form factor, Microsoft Windows XP Embedded.

## Wyse R90LW

High performance, slim form factor, Microsoft Windows Embedded Standard.

## Wyse R00LE

High performance, comprehensive expansion options, Wyse WSM.

## Wyse R50LE

High performance, comprehensive expansion options, SUSE Linux Enterprise.

## Wyse R90LE

High performance, comprehensive expansion options, Microsoft Windows XP Embedded.

## Wyse R90LEW

High performance, comprehensive expansion options, Microsoft Windows Embedded Standard.



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# Features The new Wyse R class thin clients

Created with performance and expandability in mind, the new Wyse R class joins the uniquely integrated range of Wyse Thin Computing hardware and software solutions. The new Wyse R class features high performance central and graphics processors coupled with full support for multiple screens, and the best PC experience available on a thin computing platform with Wyse TCX Virtualization Software. Wyse Device Manager supports the Wyse R class

Performance



L Family Connectivity



LE Family Connectivity



Mounting Options



Management Software



Virtualization Software



Virtualization Software



Wyse Enhanced SUSE Linux



with scalable enterprise-wide management including simple deployment, patching and updates and asset management – all with secure end-to-end encrypted communications.

Finally, each and every Wyse R class thin client contributes – quietly and coolly – to lowering your organization's carbon footprint, with power usage and emissions that are a fraction of traditional PC desktops.

Green



Provisioning Software



**Learn more:** Simply click these Wyse R class feature icons opposite left:

Visit: [wyse.com](http://wyse.com)



Take a tour of the Wyse R class range features here



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# Performance High Performing central and graphics processors

By employing the advanced ATI 690E chipset from AMD, the Wyse R class family of thin clients provide the best graphics performance in their class. With a maximum resolution of 2560x1600 on a single display (RL-family) or two displays (RLE-family) these devices will support any high-end graphics application. Wyse R class thin clients are designed to support dual monitors

## AMD Sempron Processor



The advanced technology contained in this CPU from AMD lowers power consumption without compromising performance.

- AMD64 Technology
- PowerNow! technology
- HyperTransport technology
- Built to support Microsoft® Windows® XP Embedded, as well as Linux.

## AMD ATI 690E Windows 7 ready



The most powerful and highly optimized graphics engine in its class.

- Multiple display support
- Built-in support for Full DirectX 9.0
- 3D Acceleration Features
- Support for OpenGL
- Motion Video Acceleration Features (MPEG-2, MPEG-4 and WMV9)

with standard DVI-I and DVI-D ports. In addition, Wyse R class thin clients include support for Pixel Shader 2.0 that's Windows 7 with Premium Aero GUI compliant, which will be a requirement for running some of the latest forthcoming technologies from Citrix, Microsoft and VMWare.



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**WYSE**

# R class L-Family Connectivity

Wyse R00L, R50L, R90L & R90LW thin clients



## Well connected

Two serial ports

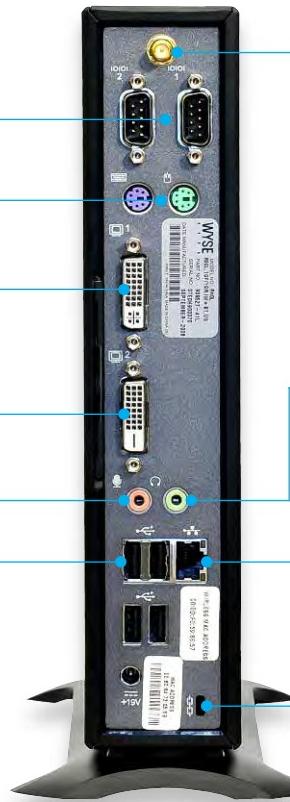
Two PS/2 ports for keyboard and mouse

One DVI-I port

One DVI-D port

Audio In: 1/8-inch mini,  
8 bit stereo microphone

Six available external  
USB 2.0 ports  
(2 front; 4 back)



Wi-Fi aerial connector for optional 802.11 b/g/n and Bluetooth 2.0 connectivity

Audio out:  
1/8-inch mini,  
16 bit stereo  
Internal mono speaker

10/100/1000  
Base-T Gigabit  
ethernet port

Kensington lock slot

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# R class LE-Family Connectivity

Wyse ROOLE, R50LE, R90LE & R90LEW thin clients



## Well connected

One parallel port

Two serial ports

Two PS/2 ports for keyboard and mouse

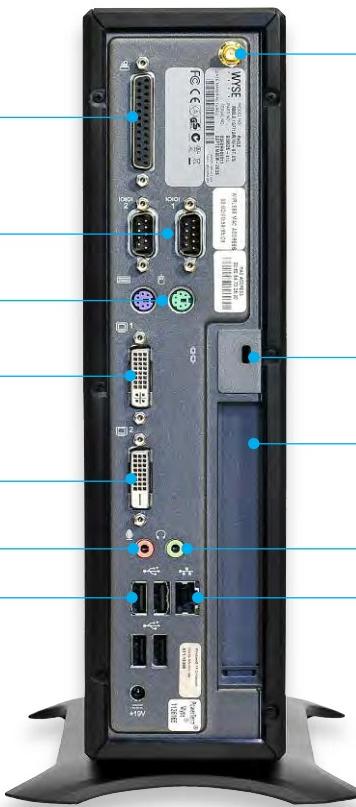
One DVI-I port

One DVI-D port

Audio In: 1/8-inch mini, 8 bit stereo microphone

Six available external

USB 2.0 ports (2 front; 4 back)



Wi-Fi aerial connector  
for optional 802.11  
b/g/n and Bluetooth 2.0  
connectivity

Kensington lock slot

One PCIe 1.1a x4 with  
x16 slot

Audio out: 1/8-inch  
mini, 16 bit stereo  
Internal mono speaker

10/100/1000 Base-T  
Gigabit ethernet port

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# Mounting options

## Vertical

- Wyse R class thin clients are supplied as standard with feet for vertical use.



## Back of monitor or wall mounting

- An optional VESA mount bracket enables Wyse R class thin clients to be mounted on the back of a monitor or on a wall (this requires the four industry standard mounting points to be free). The same bracket can be used for wall mounting, or in a secure or ruggedized cabinet if required.



## Horizontal

- Optional feet enable Wyse R class thin clients to be used horizontally.

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# Desktop computing Without compromise



## Going Green with Wyse thin computing

Many Wyse R class models are EnergyStar certified, a recognized sign of energy efficiency. Through our EarthSmart Computing initiative we are committed to helping organizations implement a greener computing strategy - one that delivers a more efficient and productive computing experience for your users with a positive effect on energy wastage, heat and carbon emissions.

### Green Power

Wyse R class thin clients use between 12 and 15 watts of power in typical use\*. In comparison, a typical PC would use between 70 and 150 watts. Even in sleep mode Wyse R class units draw just 2 watts while being fully remotely managed. Then, when you include additional power requirements in the data center, a thin computing deployment will deliver power savings of between 50 and 90%.

### Learn more

Download carbon calculators, fact sheets and white papers from here: [www.wyse.com/green](http://www.wyse.com/green)

\*Average power usage with device connected to 1 keyboard, 1 PS/2 mouse, and 1 monitor.

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# Provisioning Software Wyse WSM™

**Wyse WSM Delivers full PC functionality with all the benefits of centralized management and maintenance-free ‘Zero Clients’.**

Wyse WSM provisions the operating system and applications on-demand to desktop devices across your network. Even traditional management tasks such as firmware upgrades, patching or installing new software applications are carried out one-time only centrally on the server, avoiding the need to visit individual desktops.

Dramatically speeding-up and simplifying deployment in one stroke.

## **The power of a PC, without the complexity.**

Wyse Zero Clients and Wyse WSM provide compact, energy efficient and productive desktops with all the dynamic user experience of a PC without the day-to-day complexities and risks associated with one.

Plus, as all Wyse Zero Clients have no moving parts to fail, their service lives (typically 5-10 years) are extended beyond those of comparable PCs, and the noise from fans and hard drives is eliminated. Better still, their low power consumption means low heat output enabling comfortable working environments with a reduced dependence on costly carbon-heavy air conditioning - often leaving workplace cooling achievable through natural ventilation.



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**WYSE**

# Management Software Wyse Device Manager™

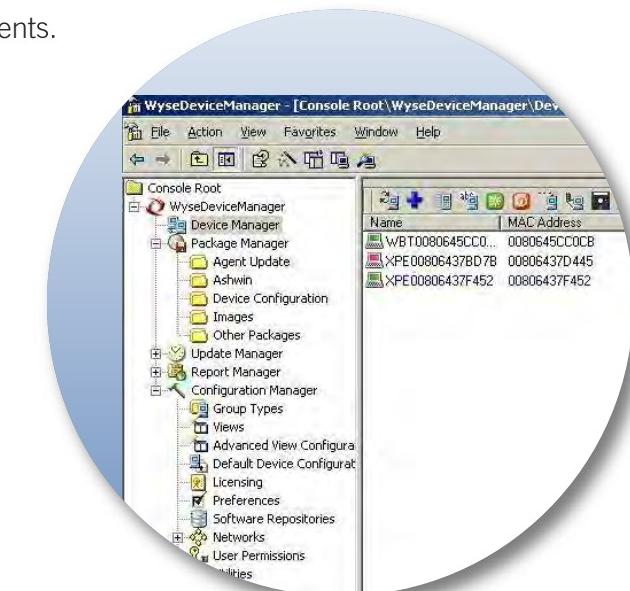
## Thin computing remote management. Made easy.

Wyse Device Manager (WDM) provides comprehensive, enterprise-wide management for Wyse R class thin clients.

A licence for WDM Workgroup Edition is included with every Wyse R class model.

This may be upgraded to WDM Enterprise Edition for an additional charge. **Key features include:**

<b>Security</b>	<ul style="list-style-type: none"><li>HTTPS Based Imaging / Updates</li><li>Fully Encrypted Network Traffic</li><li>Multi-user Admin Access (MS AD) Support</li></ul>
<b>No-Hassle Deployment</b>	<ul style="list-style-type: none"><li>Complete Device Imaging / Patching / Updates</li><li>Bandwidth Throttling for Efficiency / Reliability</li><li>Software Updates and Add-ons</li></ul>
<b>Device Administration and Monitoring</b>	<ul style="list-style-type: none"><li>Device Health Status / Reporting</li><li>Remote Shadowing / Control</li><li>Default Device Configuration</li></ul>
<b>Scalability</b>	<ul style="list-style-type: none"><li>Distributed Architecture</li><li>SQL / MSDE Support</li><li>Multiple Remote Repository Support</li></ul>
<b>Complete Asset Visibility</b>	<ul style="list-style-type: none"><li>Automated Discovery</li><li>Detailed Hardware Asset information</li><li>Installed Software Asset information</li></ul>



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# Virtualization Software Wyse TCX™ Suite

with Collaborative Processing Architecture™

## Wyse TCX delivers an amazing user experience in one software suite.

Wyse TCX is our new software suite which enriches the user experience by removing the limitations previously associated with thin clients. It enhances, not replaces, key protocols like ICA/HDX and RDP adding key features to make each more valuable. With Wyse TCX users receive the best PC experience available on a thin computing platform.<sup>1,2</sup>



### Wyse TCX Multi-display

Ensures application windows and dialog boxes are multi-monitor aware when using more than one monitor.



### Wyse TCX USB Virtualizer

- Enables plug and play peripheral support for virtual desktop environments.
- Redirect and use local USB devices in virtual desktops.
  - Deploy virtual desktops to knowledge workers with special device access needs.
  - Enable a broad set of USB peripherals including webcams and headsets.



### Wyse TCX Multimedia

Streamlines the delivery of the multimedia stream to the local client for a rich user experience within a thin computing architecture.

- Accelerates Mpeg1, Mpeg2, WMV, Mpeg4 Part 2, AC3, AAC, MP3, WAV, WMA media types.
- Collaborative Processing Architecture enhances server scalability, and network utilization by off-loading multimedia rendering to the client.



### Wyse TCX Flash Acceleration

Wyse TCX Flash Acceleration helps thin client users to experience improved Flash video performance. While the Flash player continues to run server-side, the resulting images are transcoded and redirected to the client for fast rendering. The technology allows for greater control of frame rate and compression and supports enhanced playback of youtube style flash videos in Internet Explorer.



### Wyse TCX Rich Sound

Enables bi-directional audio in virtual desktop environments, enabling solutions such as VOIP, digital dictation or voice recognition to be deployed.

1 Subject to licence fee.  
2 Support is dependant on host Operating System.



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# Virtualization Software Wyse Virtual Desktop Accelerator™

## Removing the barriers of network latency

Wyse Virtual Desktop Accelerator (VDA) enables virtualized desktop and thin computing environments to be deployed to areas where network latency has, to date, presented operational barriers. Now, with Wyse VDA, more users can receive the full benefits of Wyse thin computing – with the best PC experience over virtualized desktops.

Wyse VDA is a software-only solution for Wyse thin clients and supported PCs that delivers the best user experience for the allocated network bandwidth by neutralizing the effects of network latency and packet loss. Making ‘thin’ suitable for more remote-site, branch, or field-based users.

Wyse VDA works with instead of replacing existing RDP and ICA protocols, accelerating them by up to 20 times on networks faced with latencies up to and beyond 300ms, and at least 768kbps bandwidth.



## At a glance features:

- Software-only acceleration of virtual desktops and applications
- Accelerates existing Citrix ICA and Microsoft RDP protocols
- Works on WANs and ‘fat, long pipes’
- Accelerates connections to Citrix XenApp, Citrix XenDesktop, VMware View and Microsoft Terminal Server and Microsoft Hyper-V VDI
- Enhances Wyse TCX software suite functionality across wide-area networks
- Enables Wyse Collaborative Processing Architecture across wide-area networks
- Administrator console provides control of maximum bandwidth per connection
- Leverages built-in security of underlying protocols (128-bit encryption for RDP and ICA).

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# Operating Systems Wyse Enhanced SUSE Linux Enterprise

Wyse Enhanced SUSE Linux Enterprise is the industry's only enterprise-quality Linux operating system, created by combining the secure, flexible and market-leading usability of Novell's SUSE Linux Enterprise with Wyse's thin computing leadership and innovation in user experience and management.

## Management

- Deploying Wyse Enhanced SUSE Linux Enterprise is easier than any other thin-Linux distribution period. Utilizing Wyse's proven auto-configuration and update approach - management tasks can be managed centrally without additional management software. All that's required is an FTP server and a single text-based configuration file. Wyse Device Manager is also supported for more hands-on management.
- With Wyse Enhanced SUSE Linux Enterprise, IT managers can lock down applications, disable unnecessary configuration options, and provide read-only access capabilities to minimize data loss in case of theft, corruption, or virus attacks.



**Novell®**

## Flexible. Safe. Assured

- Wyse Enhanced SUSE Linux Enterprise provides a logical next step for Wyse ThinOS users requiring a flexible, secure and adaptable operating system with local web-browsing capability..
- Enterprise-grade security is upheld by Wyse Enhanced SUSE Linux Enterprise's read-only file system.
- Wyse Enhanced SUSE Linux Enterprise is the 'Safe Linux' indemnified jointly by Novell and Microsoft.

The only enterprise-quality Linux  
...that's optimized for thin computing

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# Operating Systems Microsoft Windows XP Embedded™

Running Microsoft Windows XP Embedded on Wyse thin clients gives IT departments the ability to support Citrix ICA, Microsoft RDP and VMware View environments and deploy fully functional desktops with better manageability and significantly lower total cost of ownership than personal computers.

Wyse Enhanced Microsoft Windows XP Embedded-based thin clients can run 32 bit Microsoft Windows applications, either locally or from servers located on the network, with inbuilt flexibility to add and support a host of desktop peripherals with permission from the IT administrator.



On rebooting, the thin client simply returns to the required file system image state.

## Secure write-protected thin desktops

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the file system image from accidental changes or user customization.

## Wyse customized image support

Wyse technicians are able to help you customize Windows XP Embedded to your exact requirements and create bespoke system images for subsequent enterprise-wide deployment, management and update through Wyse Device Manager.

Contact your Wyse Partner for further details.



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# Operating Systems Microsoft Windows Embedded Standard™

Running Windows Embedded Standard (WES), the latest and most advanced embedded OS from Microsoft, on Wyse thin clients gives IT departments the ability to deploy fully functional desktop clients with better manageability and significantly lower total cost of ownership than personal computers.

Wyse WES-based thin clients can run 32 bit Microsoft Windows applications, either locally or from servers, with the inbuilt flexibility to add and support a host of desktop peripherals with permission from the IT administrator.



## Secure write-protected thin desktops

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the files, folder and/or entire volumes from accidental changes or user customization. On rebooting, the thin

client simply returns to its original state thus preventing any possible damaging modification either from users or malware.

## Wyse customized image support

Wyse technicians are prepared to help you customize Windows Embedded Standard to your exact requirements in order to create custom-built images for subsequent enterprise-wide deployment, management and update through Wyse Device Manager.

Contact your Wyse Partner for further details.



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# Contact Wyse

**Wyse Technology Inc.**

3471 North First Street, San Jose, CA 95134-1801

**Visit our website at:**

<http://www.wyse.com> or send an email to: [sales@wyse.com](mailto:sales@wyse.com)

**Wyse Sales**

800 GET WYSE (800 438 9973)

**Wyse Customer Service Center:**

800 800 WYSE (800 800 9973)

**Wyse offers thin computing sales, service and support expertise around the globe.**

**Click here for contact details of your regional Wyse office.**

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# Technical Wyse R class specifications

Wyse R00L, R50L, R90L  
R90LW thin clients

This data sheet provides detailed technical specifications for the Wyse R class L-Family thin clients. Key features include:

- Processor:** 1.1 GHz AMD Sempron Processor™.
- Memory:** 512 MB RAM (R00L), 1 GB RAM (R50L), 1.5 GB RAM (R90L), 2 GB RAM (R90LW).
- Storage:** 1.8-inch hard drive, 24.8 GB internal, internal Micro speaker.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Audio:** On-board audio, 24-bit stereo, internal Micro speaker.
- Ports:** 1x DVI port, 1x PS/2 port, 1x USB port, 1x serial port, 1x parallel port, 1x RJ45 port, 1x S-VIDEO port, 1x microphone, 1x speaker, 1x 10/100/1000Base-T port, 1x 10/100/1000Base-T port, 1x 10/100/1000Base-T port.
- Dimensions:** 14.5 x 3.5 x 2.8 inches.
- Weight:** 1.4 lbs.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Humidity:** 20% to 80%.
- Temperature:** 32°F to 104°F.
- Certifications:** ENERGY STAR® Premium and Windows 7 ready.

Wyse ROOLE, R50LE, R90LE  
R90LEW thin clients

This data sheet provides detailed technical specifications for the Wyse R class LE-Family thin clients. Key features include:

- Processor:** 1.1 GHz AMD Sempron Processor™.
- Memory:** 512 MB RAM (ROOLE), 1 GB RAM (R50LE), 1.5 GB RAM (R90LE), 2 GB RAM (R90LEW).
- Storage:** 1.8-inch hard drive, 24.8 GB internal, internal Micro speaker.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Audio:** On-board audio, 24-bit stereo, internal Micro speaker.
- Ports:** 1x DVI port, 1x PS/2 port, 1x USB port, 1x serial port, 1x parallel port, 1x RJ45 port, 1x S-VIDEO port, 1x microphone, 1x speaker, 1x 10/100/1000Base-T port, 1x 10/100/1000Base-T port, 1x 10/100/1000Base-T port.
- Dimensions:** 14.5 x 3.5 x 2.8 inches.
- Weight:** 1.4 lbs.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Humidity:** 20% to 80%.
- Temperature:** 32°F to 104°F.
- Certifications:** ENERGY STAR® Premium and Windows 7 ready.

Wyse Enhanced  
SUSE Linux Enterprise

This data sheet provides software specifications for Wyse Enhanced SUSE Linux Enterprise. Key features include:

- Processor:** Intel Pentium 4 2.8GHz or faster, 2.8GB RAM.
- Memory:** 2GB RAM.
- Storage:** 160GB or greater, 160GB or greater.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Audio:** On-board audio, 24-bit stereo, internal Micro speaker.
- Ports:** 1x DVI port, 1x PS/2 port, 1x USB port, 1x serial port, 1x parallel port, 1x RJ45 port, 1x S-VIDEO port, 1x microphone, 1x speaker, 1x 10/100/1000Base-T port, 1x 10/100/1000Base-T port.
- Dimensions:** 14.5 x 3.5 x 2.8 inches.
- Weight:** 1.4 lbs.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Humidity:** 20% to 80%.
- Temperature:** 32°F to 104°F.
- Certifications:** ENERGY STAR® Premium and Windows 7 ready.

Microsoft  
Windows XP Embedded

This data sheet provides software specifications for Microsoft Windows XP Embedded SP3. Key features include:

- Processor:** Intel Pentium 4 2.8GHz or faster, 2.8GB RAM.
- Memory:** 2GB RAM.
- Storage:** 160GB or greater, 160GB or greater.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Audio:** On-board audio, 24-bit stereo, internal Micro speaker.
- Ports:** 1x DVI port, 1x PS/2 port, 1x USB port, 1x serial port, 1x parallel port, 1x RJ45 port, 1x S-VIDEO port, 1x microphone, 1x speaker, 1x 10/100/1000Base-T port, 1x 10/100/1000Base-T port.
- Dimensions:** 14.5 x 3.5 x 2.8 inches.
- Weight:** 1.4 lbs.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Humidity:** 20% to 80%.
- Temperature:** 32°F to 104°F.
- Certifications:** ENERGY STAR® Premium and Windows 7 ready.

The Wyse R class family of thin clients is available in L and LE configurations. Linux environments are catered for with Wyse Enhanced SUSE Linux, Windows environments are catered for with Microsoft Windows XP Embedded & Windows Embedded Standard, and zero clients are provisioned through Wyse WSM.

Microsoft  
Windows Embedded Standard

This data sheet provides software specifications for Microsoft Windows Embedded Standard. Key features include:

- Processor:** Intel Pentium 4 2.8GHz or faster, 2.8GB RAM.
- Memory:** 2GB RAM.
- Storage:** 160GB or greater, 160GB or greater.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Audio:** On-board audio, 24-bit stereo, internal Micro speaker.
- Ports:** 1x DVI port, 1x PS/2 port, 1x USB port, 1x serial port, 1x parallel port, 1x RJ45 port, 1x S-VIDEO port, 1x microphone, 1x speaker, 1x 10/100/1000Base-T port, 1x 10/100/1000Base-T port.
- Dimensions:** 14.5 x 3.5 x 2.8 inches.
- Weight:** 1.4 lbs.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Humidity:** 20% to 80%.
- Temperature:** 32°F to 104°F.
- Certifications:** ENERGY STAR® Premium and Windows 7 ready.

Wyse WSM

This data sheet provides software specifications for Wyse WSM. Key features include:

- Processor:** Intel Pentium 4 2.8GHz or faster, 2.8GB RAM.
- Memory:** 2GB RAM.
- Storage:** 160GB or greater, 160GB or greater.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Audio:** On-board audio, 24-bit stereo, internal Micro speaker.
- Ports:** 1x DVI port, 1x PS/2 port, 1x USB port, 1x serial port, 1x parallel port, 1x RJ45 port, 1x S-VIDEO port, 1x microphone, 1x speaker, 1x 10/100/1000Base-T port, 1x 10/100/1000Base-T port.
- Dimensions:** 14.5 x 3.5 x 2.8 inches.
- Weight:** 1.4 lbs.
- Power:** 100-120VAC, 50-60Hz, 1.5A max.
- Humidity:** 20% to 80%.
- Temperature:** 32°F to 104°F.
- Certifications:** ENERGY STAR® Premium and Windows 7 ready.

Learn more. Simply click these data sheet icons

Visit: [wyse.com](http://wyse.com)



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# Wyse R class L-Family Specifications: R00L, R50L, R90L and R90LW thin clients

## Hardware specifications

Processor	1.5 GHz AMD Sempron Processor*	Audio	Out: 1/8-inch mini, 16 bit stereo. Internal Mono speaker. In: 1/8-inch mini, 8 bit stereo microphone.
Memory	R00L 0/1GB or 0/2GB RAM R50L 1GB Flash /1GB RAM R90L 1GB Flash / 1GB RAM R90LW 2GB Flash / 1 GB RAM up to 4GB Flash / 2 GB RAM	Power	Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star® V.5.0 compliant power supply. Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 14.6 Watts in idle state.
I/O peripheral support	One DVI-I Port One DVI-D Port Two PS/2 ports Two serial ports Six external USB 2.0 ports (2 front; 4 back) One Mic In One Line Out	Shipping weight	6.50 lbs. (2.95kg)
Included	Optical mouse and PS/2 keyboard	Mountings	Vertical or Horizontal (optional), VESA mount.
Graphics	AMD ATI 690E Microsoft Windows Vista Premium and Windows 7 ready	Security	Device Security Built-in Kensington security slot (cable sold separately)
Networking/Comm	10/100/1000 Base-T Gigabit Ethernet 802.11 b/g/n and Bluetooth 2.0 (optional)	Dimensions	250mm x 225mm x 53mm (9.8 in. x 8.8 in. x 2.1 in.)
Display	VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate  Dual monitor supported  Single: 2560X1600 32 bpp 60Hz Dual: 2560X1600 16 bpp 60Hz Dual: 1920X1200 32 bpp 60Hz	Temperature Range	Horizontal position: 50 to 95 F (10 to 35 C) Vertical position: 50 to 104 F (10 to 40 C)
		Humidity	20% to 80%
		Hardware Warranty	Warranty Three-year hardware warranty. Visit our web site for WyseChoice extensions and upgrades
		Certifications	German EKI-ITB 2000, ISO 9241-3/-8 cULus 60950, TÜV-GS, EN 60950 FCC Class B, CE, VCCI, C-Tick WEEE, RoHS Compliant

\* R90L thin clients with FiberNIC support feature a 1.0 GHz AMD Sempron Processor.



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# Wyse R class LE-Family Specifications: ROOLE, R50LE, R90LE and R90LEW thin clients

## Hardware specifications

Processor	1.5 GHz AMD Sempron Processor			Audio	Out: 1/8-inch mini, 16 bit stereo. Internal Mono speaker In: 1/8-inch mini, 8 bit stereo microphone
Memory	ROOLE 0/1GB or 0/2GB RAM R50LE 1GB Flash /1GB RAM R90LE 1GB Flash / 1GB RAM R90LEW 2GB Flash / 1 GB RAM up to 4GB Flash / 2 GB RAM			Power	Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star® V.5.0 compliant power supply. Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 14.1 Watts in idle state.
I/O peripheral support	One DVI-I Port / One DVI-D Port Two PS/2 ports Two serial ports One Parallel port Six External USB 2.0 ports (2 front; 4 back) Four Internal USB 2.0 ports One Mic In / One Line Out			Shipping weight	8.37 lbs. (3.8kg)
Expansion	One PCIe 1.1a x4 with x16 slot, half card length, full height			Mountings	Vertical or Horizontal (optional), VESA mount.
Included	Optical mouse and PS/2 keyboard			Device Security	Built-in Kensington security slot (cable sold separately)
Graphics	AMD ATI 690E Microsoft Windows Vista Premium and Windows 7 ready			Dimensions	307mm x 225mm x 82mm (12.1 in. x 8.8 in. x 3.2 in.)
Networking/Comm	10/100/1000 Base-T Gigabit Ethernet 802.11 b/g/n and Bluetooth 2.0 (optional)			Temperature Range	Horizontal position: 50 to 95 F (10 to 35 C) Vertical position: 50 to 104 F (10 to 40 C)
Display	VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate Dual monitor supported  Single: 2560X1600 32 bpp 60Hz Dual: 2560X1600 32 bpp 60Hz			Humidity	20% to 80%
				Hardware Warranty	Warranty Three-year hardware warranty. Visit our web site for WyseChoice extensions and upgrades
				Certifications	German EKI-ITB 2000, ISO 9241-3/-8 cULus 60950, TÜV-GS, EN 60950 FCC Class B, CE, VCCI, C-Tick WEEE, RoHS Compliant

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# Wyse Enhanced SUSE Linux Enterprise Software specifications

<b>Firmware features</b>	SUSE Linux Enterprise 10 SP2 with Kernel 2.6 Compatible with SLED 10 SP2 Add-ons Automatic Central Configuration (text-based INI files) Automatic Upgrades (FTP, HTTP, HTTPS) CUPS, LPR/LPD, Ghostscript and Samba print support Firefox browser standard Citrix ICA 10.32 client RDESKTOP 1.6 client XDMCP SSH Support Flash Player JAVA support Ericom PowerTerm® Terminal Emulation Cisco, Juniper, Nortel, IPSEC VPN Support (Add-ons) ThinPrint Support(Add-on)	<b>Security</b>	Compressed read-only file system Wireless 802.1x security support Ability to lock down terminal and access to specific applications per user
<b>Server OS Compatibility/Support</b>	Citrix XenApp (formerly Citrix Presentation Server), Citrix XenDesktop VMware View UNIX/Linux servers Windows Server 2000 Windows Server 2003	<b>Management</b>	Automatic configuration and upgrading without need for Device Management software Also, integration with Wyse Device Manager (WDM) if hands-on management and asset-tracking is desired: - Complete image upgrade - Wake terminal remotely (Wake-on LAN) - Terminal configuration (IP information, name, etc.) - Remote screen shadowing of entire desktop (VNC) - Asset management and Reporting
<b>Keyboard / language support</b>	100+ Keyboard Layouts supported locally (English, German, Spanish, French, Italian, Dutch, Chinese, Japanese, Turkish) Language: English (Default), add-ons available for other languages (English, German, Spanish, French, Italian, Dutch, Chinese, Japanese, Turkish)	<b>Wireless support</b>	WEP, WPA Personal, WPA2 Personal, WPA Enterprise, WPA2 Enterprise Authentication support PEAP: PAP/MSCHAP/MSCHAPV2 support TLS: PAP/MSCHAP/MSCHAPV2/GTC support
		<b>Wyse TCX Suite</b>	Some component technologies of the Wyse TCX Suite are supported (not all).

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# Microsoft Windows XP Embedded SP3 Software specifications

<b>Firmware features</b>	Microsoft Windows XP Embedded SP3 Microsoft Internet Explorer 7.0 resident: HTML, JavaScript, XML, Active X Sun JRE, Media Player, Citrix Web Interface RDP 6.0.xx resident Citrix ICA 11 resident VMware View Client Resident Terminal Services Advanced Client (TSAC) Ericom PowerTerm® Terminal Emulation provides 30-plus terminal emulations	Reporting, Asset management SMS Altiris
<b>Memory</b>	1GB of flash memory and 1GB of RAM	
<b>Server OS Infrastructure Support</b>	Citrix XenApp / Citrix Presentation Server Citrix XenDesktop VMware View Microsoft Windows Terminal Server 2003 & 2008	
<b>Set-up and Configuration</b>	Boot from local flash Microsoft Windows XP user interface languages: U.S. English, French, German, Spanish, Optional add-ons	
<b>Keyboard language support</b>	U.S. English (standard), French, German, Spanish, U.K. English, 40 other languages included	
<b>Protocol Support</b>	TCP/IP, DNS, DHCP, PXE	
<b>Management</b>	Remote management, configuration, and upgrades through Wyse Device Manager Complete image upgrade Wake terminal remotely (Wake-on LAN) Terminal configuration (IP information, name, etc.) Remote screen shadowing of entire desktop (Wyse Remote Shadow)	
<b>Wireless support</b>	802.11 b/g/n support with internal wireless adapter WPA-2, WEP, WPA wireless authentication Supports wireless adapters from: Cisco, D-Link, Netgear, US Robotics, Trendware	
<b>Plug-ins</b>	Adobe Flash Player Adobe Shockwave	
<b>Wyse TCX Suite</b>	Advanced support for innovative Wyse TCX Suite virtualization software that both works with <i>and enhances</i> ICA and RDP (instead of replacing them) featuring: <ul style="list-style-type: none"><li>• Wyse TCX Multimedia - the power to run rich multimedia files formats utilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the client and the server.</li><li>• Wyse TCX Multi-Display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.</li><li>• Wyse TCX USB Virtualizer - makes client attached USB devices visible to virtual desktops and applications, with full IT control.</li><li>• Wyse TCX Rich Sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.</li><li>• Wyse TCX Flash Acceleration - helps users of thin clients to experience improved Flash performance.</li></ul>	

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# Microsoft Windows Embedded Standard Software specifications

<b>Firmware features</b>	Microsoft Windows Embedded Standard (WES) Microsoft Internet Explorer 7.0 resident: HTML, JavaScript, XML, Active X Sun JRE, Media Player, Citrix Web Interface RDP 6.1 resident Citrix ICA 10 resident Ericom PowerTerm® Terminal Emulation provides 30-plus terminal emulations Citrix XenDesktop Windows Media Player 11	Remote screen shadowing of entire desktop (Wyse Remote Shadow) Reporting, Asset management SMS Altiris
<b>Server OS Infrastructure Support</b>	Citrix XenApp / Citrix Presentation Server Citrix XenDesktop VMware View Microsoft Windows Terminal Server 2003 & 2008	802.11 b/g/n support with external wireless adapter or internal wireless adapter option WPA-2, WEP, WPA wireless authentication PEAP-GTC wireless authentication protocol with optional Juniper Odyssey Client Supports PC-Card wireless adapters from: Cisco, D-Link, Netgear, US Robotics, Trendware
<b>Application Framework</b>	.Net 3.5	<b>Plug-ins</b> Adobe Flash Player Adobe Shockwave Microsoft Silverlight
<b>Security</b>	File Based Write Filter (FBWF) Microsoft Baseline Security Analyzer (MBSA)	<b>Wyse TCX Suite</b> Advanced support for innovative Wyse TCX Suite virtualization software that both works with <i>and enhances</i> ICA and RDP (instead of replacing them) featuring: <ul style="list-style-type: none"><li>• Wyse TCX Multimedia - the power to run rich multimedia files formats utilizing Wyse Collaborative Processing Architecture (CPA) that intelligently redirects the necessary processing tasks between the client and the server.</li><li>• Wyse TCX Multi-Display - ensures that windows and dialogue boxes behave the way users expect when using more than one monitor.</li><li>• Wyse TCX USB Virtualizer - makes client attached USB devices visible to virtual desktops and applications, with full IT control.</li><li>• Wyse TCX Rich Sound - enables virtual desktops and applications to receive and transmit high quality audio without compromise.</li><li>• Wyse TCX Flash Acceleration - helps users of thin clients to experience improved Flash performance.</li></ul>
<b>Set-up and Configuration</b>	Boot from local flash Microsoft Windows WES user interface languages: U.S. English, French, German, Spanish, Optional add-ons	
<b>Keyboard language support</b>	U.S. English (standard), French, German, Spanish, U.K. English, 40 other languages included	
<b>Protocol Support</b>	TCP/IP, DNS, DHCP, PXE	
<b>Management</b>	Remote management, configuration, and upgrades through Wyse Device Manager Complete image upgrade Wake terminal remotely (Wake-on LAN) Terminal configuration (IP information, name, etc.)	

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# Wyse WSM Software Specifications

<b>Device Hardware Requirements</b>	<ul style="list-style-type: none"><li>• Minimum processor speed 800MHz (1GHz or higher is recommended).</li><li>• Minimum 1GB or higher is recommended</li></ul>	<ul style="list-style-type: none"><li>• Flash size/local storage – none needed. If the device has flash it can be used as a local cache for offline mode.</li></ul>
<b>Server Requirements</b>	<ul style="list-style-type: none"><li>• Minimum processor speed 1GHz (3GHz or higher is recommended).</li></ul>	<ul style="list-style-type: none"><li>• Server Operating System: Windows XP Pro SP3, Windows Server 2003, Windows Server 2008 and 2008 R2</li></ul>
<b>Network Requirements</b>	<ul style="list-style-type: none"><li>• Server Lan Speed = Minimum 100Mbps (1Gbps and up is recommended).</li><li>• Device Lan Speed = Minimum 10Mbps (100 Mbps full duplex is recommended)</li></ul>	
<b>Operating Systems Supported</b>	<ul style="list-style-type: none"><li>• Microsoft Windows XP</li><li>• Microsoft Windows Vista.</li><li>• Microsoft Windows 7.</li></ul>	
<b>Databases supported</b>	<ul style="list-style-type: none"><li>• Microsoft SQL 2005 and 2008 (Server and Express Editions).</li></ul>	
<b>Built-in high Availability</b>	<ul style="list-style-type: none"><li>• Database availability using SQL clustering.</li><li>• Built-in server high availability through WSM Server Grouping feature.</li></ul>	<ul style="list-style-type: none"><li>• Server to Server Fail-over Capability.</li></ul>
<b>Fast and Easy Installation</b>	<ul style="list-style-type: none"><li>• Installing Wyse WSM is simply a matter of running a single, graphical installer.</li></ul>	<ul style="list-style-type: none"><li>• The installer checks for all the prerequisite components before installation.</li></ul>
<b>Web-based Admin Console</b>	<ul style="list-style-type: none"><li>• Allows IT administrators to access Wyse WSM from any browser.</li><li>• Control the entire installation from a central location.</li></ul>	<ul style="list-style-type: none"><li>• Dramatically simplifies administration, saving IT time and user downtime.</li><li>• Wizards to guide the user through specific tasks.</li></ul>
<b>Operation System and Application Imaging Tools</b>	<ul style="list-style-type: none"><li>• Imaging tool simplifies the process of creating an OS image for the specific hardware configuration and an application image for all hardware configurations.</li></ul>	<ul style="list-style-type: none"><li>• All OS and application images are ready for deployment once created, no further modifications needed.</li></ul>
<b>Application Subscription Management</b>	<ul style="list-style-type: none"><li>• Use flexible application deployment methods:<ul style="list-style-type: none"><li>- Auto-subscribed applications are ready for use when user logs in for the first time.</li><li>- Manual subscriptions allow users the flexibility to use applications only when needed.</li><li>- Mandatory subscriptions that cannot be unsubscribed by users.</li></ul></li></ul>	
<b>Protected System Drive</b>	<ul style="list-style-type: none"><li>• Allows administrators to protect the system drive from enduser initiated updates.</li></ul>	<ul style="list-style-type: none"><li>• Prevents changes to operating system drive except by administrators, helping stop viruses, spyware, or malware from infecting the device.</li></ul>

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# Wyse WSM Software Specifications continued

<b>Operating System Streaming</b>	<ul style="list-style-type: none"><li>Wyse WSM provides an on-demand operating system to thin-clients on the network.</li><li>Only those bits needed for the normal device operation are sent in order to reduce network traffic.</li></ul>	<ul style="list-style-type: none"><li>Innovative technology makes each thin client think there is a virtual hard disk attached to the device.</li><li>Operating-system images can be shared across multiple devices, making management easier.</li></ul>
<b>Flexible Boot Options</b>	<ul style="list-style-type: none"><li>Each device can boot from four operating system image assignments.</li><li>Administrators can assign or let users choose which operating system they want to boot.</li></ul>	<ul style="list-style-type: none"><li>First disk mode for the default OS image to boot from every time device starts up.</li><li>First available mode to boot from the first responding server in order to balance loads.</li></ul>
<b>Application License Management and Metering</b>	<ul style="list-style-type: none"><li>Wyse WSM provides the infrastructure to collect information about the application license-usage across the enterprise. This information allows IT organizations to save money associated with application licenses.</li></ul>	<ul style="list-style-type: none"><li>Licenses can be stored for all the applications deployed. It also enforces license compliance.</li><li>Types of licenses that can be controlled include:<ul style="list-style-type: none"><li>- Time-based licenses (valid for X days).</li><li>- Number of concurrent users.</li></ul></li></ul>
<b>Modes of Operation</b>	<p>Wyse WSM allows administrators to choose modes of operation for the operating system:</p> <ul style="list-style-type: none"><li>- <b>Private Mode</b> – for administration of operating system images.</li></ul>	<ul style="list-style-type: none"><li>- <b>Shared Mode</b> – has two additional modes of normal operation:<ul style="list-style-type: none"><li>- <i>Volatile</i> – returns desktop to pristine state after a device reboot.</li><li>- <i>Persistent</i> – remembers any user settings after a device reboot.</li></ul></li></ul>
<b>Remote Servers for Scalability</b>	<ul style="list-style-type: none"><li>IT administrators can deploy multiple remote servers to improve scalability of the overall solution.</li></ul>	<ul style="list-style-type: none"><li>Central management of remote servers allows easy deployment of the solution across different geographic locations.</li></ul>
<b>Comprehensive Reporting</b>	<ul style="list-style-type: none"><li>Easy ad-hoc reporting based on flexible parameters.</li><li>Reports are delivered through HTML, giving you the flexibility to output in any form.</li></ul>	<ul style="list-style-type: none"><li>License-metering reports can be used to make proactive purchasing decisions.</li><li>License-audit reports can be used for compliance purposes.</li></ul>
<b>Desktop Compatibility</b>	<ul style="list-style-type: none"><li>Wyse WSM works with Wyse COOLE, V00L/E, R00L/E and X00C/L family thin clients as well as with existing thin clients, personal computers, and virtual-desktop systems.</li></ul>	



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# Wyse R class thin clients

## Best Power, Expandability and Display Performance

### Summary Data

#### Wyse R class thin clients

##### Everything you need in a thin client.

The Wyse R class family of thin clients combines power, expandability and display performance with the legendary security, reliability and manageability of Wyse Thin Computing. Designed to maximize your investment in thin, virtualized or zero client environments the Wyse R class family presents a compelling solution to delivering low cost, low carbon, high-performance desktops.

The Wyse R class family features powerful processors, dual monitor support, fast graphics and a host of USB ports for those vital everyday peripherals. Perfect when you need a client capable of voice, data, and video.

##### High performance central and graphics processors.

The new Wyse R class features high performance central and graphics processors coupled with full support for multiple screens, and the best PC experience available on a thin computing platform with the Wyse TCX Suite of virtualization software.

##### Mounting options.

Wyse R class thin clients are supplied as standard with feet for vertical use. Optional feet enable Wyse R class thin clients to be used horizontally. An optional VESA mount bracket enables Wyse R class thin clients to be mounted on the back of a monitor or on a wall (this requires the four industry standard mounting points to be free). The same bracket can be used for wall mounting, or in a secure or ruggedized cabinet if required.

##### Choice of operating systems.

The Wyse R class is available with Windows XP Embedded, Windows Embedded Standard and Wyse Enhanced SUSE Linux operating systems as well as in a Wyse WSM-configured zero client format.

**Call Wyse:** 1-800-GET-WYSE [www.wyse.com](http://www.wyse.com)

#### Features

##### Performance

Advanced new generation ATI 690E graphics and AMD Sempron central processors for class-leading computing and graphics performance.

##### Connectivity

Featuring future proof connectivity with two DVI outputs and fast 802.11n WiFi.

##### Mounting options

The Wyse R class family can be sited vertically or horizontally on desktops, and even fitted to walls and behind monitors.

##### Green

Wyse R class thin clients use between 12 and 15 watts of power in typical use – less than their nearest rivals, saving critical carbon output and vital budget.

##### OS and Application Provisioning

Full integration with Wyse WSM provisioning software with the Wyse ROOL and ROOLE.

##### Wyse Enhanced SUSE Linux

Secure, flexible and market-leading Linux combined with Wyse optimizations in management and user experience.

##### Microsoft Windows XP Embedded SP3

This robust and flexible operating system is further enhanced by the Wyse file-based Write Filter that enables you to protect the file system image from accidental changes or user customization.

##### Microsoft Windows Embedded Standard

The latest and most advanced embedded OS from Microsoft giving IT departments the ability to deploy fully functional thin computers with better manageability and significantly lower total cost of ownership than personal computers.

# Wyse R class thin clients Hardware Specifications

## Wyse R class L family

Processor	1.5GHz AMD Sempron Processor*
Memory	R00L 0/1GB or 0/2GB RAM R50L 1GB Flash /1GB RAM R90L 1GB Flash / 1GB RAM R90LW 2GB Flash / 1 GB RAM up to 4GB Flash / 2 GB RAM
I/O peripheral support	One DVI-I Port One DVI-D Port Two PS/2 ports Two serial ports Six External USB 2.0 ports (2 front; 4 back) Four Internal USB 2.0 ports One Mic In / One Line Out Enhanced PS/2 Keyboard with PS/2 with Windows Keys (104 keys) PS/2 Optical Mouse included
Graphics	AMD ATI 690E Microsoft Windows Vista Premium and Windows 7 ready
Networking/Comm	10/100/1000 Base-T Gigabit Ethernet 802.11 b/g/n and Bluetooth 2.0 (optional)
Display	VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate Dual monitor supported Single: 2560X1600 32 bpp 60Hz Dual: 2560X1600 16 bpp 60Hz Dual: 1920X1200 32 bpp 60Hz
Audio	Out: 1/8-inch mini, 16 bit stereo. Internal Mono speaker. In: 1/8-inch mini, 8 bit stereo microphone.
Power	Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star® V.5.0 compliant power supply. Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 14.6 Watts in idle state.
Shipping weight	6.50 lbs. (2.95kg)
Mountings	Vertical or Horizontal (optional), VESA mount (optional)
Device Security	Built-in Kensington security slot (cable sold separately)
Dimensions	250mm x 225mm x 53mm (9.8 in. x 8.8 in. x 2.1 in.)
Temperature Range	Horizontal position: 50 to 95 F (10 to 35 C) Vertical position: 50 to 104 F (10 to 40 C)
Humidity	20% to 80%
Hardware Warranty	Warranty Three-year hardware warranty. Visit our web site for WyseChoice extensions and upgrades
Certifications	German EKI-ITB 2000, ISO 9241-3/-8 cULus 60950, TÜV-GS, EN 60950 FCC Class B, CE, VCCI, C-Tick WEEE, RoHS Compliant

\* R90L thin clients with FiberNIC support feature a 1.0 GHz AMD Sempron Processor.

## Wyse R class LE family

Processor	1.5 GHz AMD Sempron Processor
Memory	R00L 0/1GB or 0/2GB RAM R50L 1GB Flash /1GB RAM R90L 1GB Flash / 1GB RAM R90LW 2GB Flash / 1 GB RAM up to 4GB Flash / 2 GB RAM
I/O peripheral support	One DVI-I Port One DVI-D Port Two PS/2 ports Two serial ports Six External USB 2.0 ports (2 front; 4 back) Four Internal USB 2.0 ports One Mic In / One Line Out One Parallel port Enhanced PS/2 Keyboard with PS/2 with Windows Keys (104 keys) PS/2 Optical Mouse included
Expansion	One PCIe 1.1a x4 with x16 slot, half card
Graphics	AMD ATI 690E Microsoft Windows Vista Premium and Windows 7 ready
Networking/Comm	10/100/1000 Base-T Gigabit Ethernet 802.11 b/g/n and Bluetooth 2.0 (optional)
Display	VESA monitor support with Display Data Control (DDC) for automatic setting of resolution and refresh rate Dual monitor supported Single: 2560X1600 32 bpp 60Hz Dual: 2560X1600 32 bpp 60Hz
Audio	Out: 1/8-inch mini, 16 bit stereo. Internal Mono speaker. In: 1/8-inch mini, 8 bit stereo microphone.
Power	Worldwide auto-sensing 100-240 VAC, 50/60 Hz. Energy Star® V.5.0 compliant power supply. Average power usage with device connected to 1 keyboard with 1 PS/2 mouse and 1 monitor: 14.6 Watts in idle state.
Shipping weight	8.37 lbs. (3.8kg)
Mountings	Vertical or Horizontal (optional), Wall mount (optional)
Device Security	Built-in Kensington security slot (cable sold separately)
Dimensions	307mm x 225mm x 82mm (12.1 in. x 8.8 in. x 3.2 in.)
Temperature Range	Horizontal position: 50 to 95 F (10 to 35 C) Vertical position: 50 to 104 F (10 to 40 C)
Humidity	20% to 80%
Hardware Warranty	Warranty Three-year hardware warranty. Visit our web site for WyseChoice extensions and upgrades
Certifications	German EKI-ITB 2000, ISO 9241-3/-8 cULus 60950, TÜV-GS, EN 60950 FCC Class B, CE, VCCI, C-Tick WEEE, RoHS Compliant